BENETT'S

CATALOGUE

OF

WILTSHIRE

ORGANIC REMAINS.

189911 dl. 23.

WILTSHIRE

ORGANIC REMAINS.

A

CATALOGUE

OF THE

ORGANIC REMAINS

OF THE

COUNTY OF WILTS.

BY ETHELDRED BENETT.

WARMINSTER:

PRINTED BY J. L. VARDY.

1831.

TO

GEORGE BELLAS GREENOUGH, ESQ.

F. R. S. L. S. G. S.

VICE-PRESIDENT OF THE GEOGRAPHICAL SOCIETY,

&c. &c. &c.

THIS LITTLE WORK IS INSCRIBED

BY HIS OBLIGED FRIEND AND SERVANT,

ETHELDRED BENETT.

SOME years since, at the request of Sir Richard Colt Hoare, I undertook to draw up the best account I could of the Geology of South Wiltshire: and I had proceeded as far as two hundred and fifty numbers in a catalogue of the fossils to accompany it; when my time was entirely engrossed by unforeseen circumstances, for such a length of time, as to make me almost despair of ever being able to fulfil my promise; and my subsequent ill health extinguished what little hope remained of my being able to accomplish it.

During the last summer, Sir R. C. Hoare again expressed a wish, that so interesting a portion of the history of South Wiltshire, should not be passed over in silence, and the following pages are the result of my attempt to illustrate it. Those who know me best will be fully aware, that I have endeavoured to render this catalogue as correct as possible; and when I mention that it has been approved by Mr. Greenough, it will run no risk of being despised in the Geological World.

If it should be objected to my new names in the genus Polypothecia, that they are all derived from external form; I beg to state, that three scientific gentlemen undertook, at different times, to describe and name this class of fossils, and to each I offered all the assistance which my very large collection of them afforded; that all have disappointed me; and having waited fifteen years, and the fossils being now, by the death of the late Mr. J. S. Miller, again on my hands unnamed, I have done the best I could. Mr. Miller did, however, publish a Prospectus of a work on them; to that I am indebted for the generic name "Polypothecia;" and Mr. D. Don obligingly gave me his valuable assistance in latinizing the characters I wished to express in their specific names.

When this catalogue was first thought of, my geological friends expressed a wish that it should be published separately; but considering it a thing of mere local interest, I have preferred printing a few copies only for the acceptance of my Friends.

The following letter, which will explain itself, was written to Sir R. C. Hoare, accompanying this catalogue; both of which are inserted in his valuable work on the Hundred of Warminster.

ETHELDRED BENETT.

Norton House,
25th April, 1831.

TO SIR RICHARD COLT HOARE, BART.

Dear Sir,

In compliance with your request, I have drawn up the following slight Sketch of the Geology of South Wilts, and which I hope you may deem worthy of the place you have assigned to it in your work.

Our County, and particularly the southern part of it, is exceedingly rich in Organic Remains; and is therefore not less interesting to the Geologist than to the Antiquary. Numerous Elephants' Teeth were dug up some years since at Fisherton Anger, near Salisbury, proving the Diluvian Detritus to exist there.

The London Clay is found at Clarendon Park, in a field on the road side leading to Romsey. The Plastic Clay occurs on Chittern Down, near Heytesbury; and the Beach Pebbles found there, form the pavement of the ladies' grottoes of the surrounding neighbourhood.

The downs are of great extent, on this side of the County; and the fossil contents of those of Norton Bavent, Heytesbury, and their immediate vicinity, bear a close resemblance to those of Sussex: but those of Warminster, and Clay Hill, are essentially different, and much more sparing in their fossil contents: while, on the contrary, the Chalk of Pertwood, Chicklade, Berwick St. Leonard, and Wiley, all near Hindon; and Ditchampton, near Wilton; is remarkable for the abundance of its Alcyonic Remains, chiefly in Flints, Echini, &c.; all of which vary materially from any of the other places specified.

The Chalk Marl, which is so local as to have been altogether unnoticed by Mr. Wm. Smith, is exceedingly well defined at Norton Bavent, at Bishopstrow, and at Stourton.

The town of Warminster stands on the Green Sand; and the remains of Alcyonia with which it abounds, more particularly on the west of the town, seem almost inexhaustible: a few remains of Testacea are sparingly scattered among them, but at Chute Farm, near Longleat, in a field called Brimsgrove, it would seem, said the late Mr. Wm. Cunnington, as if a cabinet had been emptied of its contents, so numerous, and so various, *were* the Organic Remains found there; now become scarce; but chiefly small species.

At Crockerton, south-west of Warminster, the Clay from below the Sand makes its appearance, with its accompanying fossils; and the same bed occurs at Rudge, near Chilmark. Fossil Resin, similar to that at Highgate, is found at both places, but very sparingly, and at both the Clay is used for bricks and pottery.

I am not sufficiently acquainted with the late division of the Green Sand Formation into Upper and Lower Green Sand, to determine to which the Sand Hills belong, which rise at East Knoyle, and continue in a ridge to Fonthill, and on which Fonthill Abbey stands; but the Alcyonia of Warminster are not found there that I am aware of; while at Dinton, enough are seen to prove the identity of the Green Sand of Rudge, Dinton, and Barford, with that of Warminster. A bed of Gryphæa, more than a foot thick, is the peculiarity of the Dinton Sand Ridge, and they are plentiful at Rudge: these shells are siliceous casts at both these places; but at Diltons Marsh, north-west of Warminster, where also they are numerous, they appear more like recent dead shells, chalky and brittle.

The Portland beds are in great strength at Tisbury; and Chicksgrove Quarry in that parish, is one of more than usual interest to the Geologist, on account of the fine section which it shows of sixteen beds of this series, singularly rich in Organic Remains: and the Purbeck beds on Lady Down, also in the parish of Tisbury, have shewn that they contain the Ichthyological Treasures of Dorsetshire. The siliceous Madrepore of Tisbury, is a subordinate bed in this series, and which has not yet been found elsewhere, with the exception of the agatized Madrepores of Antigua: they were first discovered by being turned up by the plough; but the sinking of a well at Burton's Cottage, near the Inn at Fonthill Gifford, has proved their geological position to be over the Portland Rock; they are extremely local.

The Kimeridge Clay is seen near the Church at Tisbury, but I am unacquainted with its contents there: it appears again, with its characteristic fossils, at Binley Farm, also in the parish of Tisbury, to the west of Pythouse; and this appears to be the lowest stratum in this part of our County.

In North Wilts, the Coral Rag predominates at Blunsdon; and the fossils of the Kelloway Rock, and the beautiful Echini of Calne, have brought those beds of the Oolitic series into notice. Bradford is also indebted to the Pear Encrinite, (Apiocrinites rotundus of Miller) for its celebrity in the Geological World.

From the above localities I have formed my Collection of Wiltshire Fossils: it is peculiarly rich in Alcyonia; probably not to be surpassed in those from the Green Sand Formation. I subjoin a Catalogue of the principal fossils, named, as far as they have come under my notice: those which are marked with an Asterisk are in my own Cabinet; the one marked n. g. is a new Genus; and those marked n. s. are new Species.

E. B.

1*st. January*, 1831.

Since writing the above, I have found the following Memorandum:

Geological position of the Siliceous Madrepore. The sinkings of a well in the field called Butcher's Knap, in the parish of Tisbury, the only place where the Coral Flint has been found, and which led to the discovery of the bed.—The usual rubble of the Portland beds, in Tisbury, ten feet.—Siliceous Madrepore, one foot.—The usual succession of the Portland beds, in Tisbury, forty-two feet.—Water.—No sand between the beds.

A CATALOGUE

OF

WILTSHIRE ORGANIC REMAINS.

MAMMALIA.—REPTILIA.—PISCES.

MAMMALIA.			
Elephas, dentes.			Fisherton Anger.
• ~~Anoplotherium, lobe of the foot~~		~~Portland beds~~	~~Pythouse, in Tisbury.~~
Balæna, the upper arm.		Green Sand	Wincombe, in Donhead St. Mary.
REPTILIA.			
• Plesiosaurus, the vertebræ.		Portland beds	Tisbury.
1.– • An other large vertebræ.		ditto & Kimeridge Clay	Pythouse, in Tisbury. & Binley Farm
• Small vertebra, & fragment of bone.		Coral Rag	Steeple Ashton.
• Julo-cido-coprus.	Geol. Suss. t. 9, f. 4 to 11	Upper Chalk	Warminster.
PISCES.			
• Balistes, (radius.)	Geol. Suss. t. 39 & 34. f. 8.	Upper Chalk	Norton Bavent.
• ——— (radius.)	Char. Moses t. 18, f. 1	Forest Marble	Atford, near Chippenham.
• Squalus, zygæna, dentes.	Geol. Suss. t. 32 f. 4, 7, 8, 11.	Upper and Lower Chalk	Norton Bavent and Heytesbury.
• ——— Mustelus, dentes.	.. f. 2, 3, 5, b.	U. Chalk, C. Marl, & Gn. Sand & Lower Chalk	Stourhead, Chute Farm, Dilton Marsh, Warminster, Clay Hill, and Bishopstrow. & Heytesbury
• ——— Galeus, dentes.	.. f. 12, 16.	Upper Chalk	Warminster and Clay Hill.
• ~~——— tricuspidate tooth~~	.. ..	~~Upper and Lower Chalk~~	~~Warminster and Heytesbury.~~
• Large fish, squarish scales.		Purbeck beds	Lady Down, in Tisbury.
• A whole fish 4¼ inches long.		Portland beds	Chicksgrove, in Tisbury.
——— 3 inches long.		Upper Chalk	Warminster.
• Fragments of fish, small scales, like some from Sussex.		..	Pertwood and Chicklade.
• Small scales of fish.		Green Sand	Norton Bavent.
• Small palates.	Geol. Suss. t. 32	Upper Chalk	Warminster and Clay Hill.
• Large palates.	.. ..	Lower Chalk	Norton Bavent and Heytesbury.
• Bufonital palate of fish.	Org. Rem. iii. t. 19, f. 14	Portland beds	Chicksgrove, in Tisbury.
• Bufonites, small, in clusters in their bone sockets			Fonthill.

1. Ichthyosaurus.

• Single, Bufonites.	Strata iden. f. 8	Forest Marble	Atford, near Chippenham.
• Leech, formed palates.	.. f. 9, 10	..	Ibid.
TESTACEA.			
Acteon, cuspidatus.	Min. Con. t. 455, f. 1	Great Oolite	Ancliffe.
——— acutus.	.. f. 2	..	Ibid.
Actinocamax, verus.	G. T. 2 ser. ii. t. 9, f. 17	Chalk	
• Ammonites, bilabiatus.	Min. Con. t. 184	Upper Chalk	Pertwood.
• ——— varians.	.. t. 176	Lower Chalk and Chalk Marl	Norton Bavent and Bishopstrow.
• ——— Mantelli.	.. t. 55	Chalk Marl	Bishopstrow.
• ——— Sussexiensis.	Geol. Suss. t. 21, f. 10	..	Warminster.
• ——— n. s.		Lower Chalk	Ibid.
• ——— n. s.		Green Sand in Chalcedony	Whitburn, near Warminster.
• ——— dentatus.	Min. Con. t. 308	Gault	Crockerton, & Rudge in Chilmark
• ——— monilis.	.. t. 117	..	Crockerton.
• ——— Benettiæ.	.. t. 539	..	Ibid.
• ——— lævigatus.	.. t. 549, f. 1	..	Ibid.
• ——— tuberculatus.	.. t. 310, f. 1, 2	..	Ibid.
• ——— auritus.	.. t. 134	Micaceous Sand	Devizes.
• ——— giganteus.	.. t. 126	Portland beds	Chicksgrove, in Tisbury.
• ——— Princeps, n. s.		..	Tisbury, & Pythouse, in Tisbury.
• ——— bicostatus, n. s.		..	Tisbury.
• ——— Rhotomagensis.	Min. Con. t. 515	Chalk Marl	Warminster, Bidcomb, and West-
——— Herveyi.	.. t. 195	Coral Rag	Bradford. [bury Leigh.
——— splendens.	.. t. 103	..	Westbrook, in Bromham.
• ——— vertebralis.	.. t. 165	..	Calne.
• ——— Callovi[e]nsis.	.. t. 104	Kelloway Rock	Kelloways.
——— Gulielmii.	.. t. 311	..	Ibid.
——— Königi.	.. t. 263, f. 1, 2	..	Ibid.
——— sublævis.	.. t. 54	..	Ibid and Christian Malford.
• ——— Catena.	.. t. 420	Yellow Sand	Seend.
———		Cornbrash	Calne.
• Ampullaria, media, n. s.		Chalk Marl and Yellow Flint	Upton Scudamore and Tisbury.
• ——— or Natica.	Sowerby	Gault	Crockerton.
• ——— elongata, n. s.		Portland beds, Yel. Flint, & Coral Rag	Fonthill, Tisbury, Semley & Steeple
• Anatifa ?	Org. Rem. iii. t. 16, f. 18	Yellow Gravel	Clarendon Park. [Ashton.
• Arca, carinata.	Min. Con. t. 44	Green Sand and Mic. Sand	Chute Farm and Devizes.
• —— cordata, n. s.		Portland beds	Pythouse, in Tisbury.
—— pulchra.	Min. Con. t. 473, f. 3	Great Oolite	Ancliffe.
• Astarte, cuneata.	.. t. 137, f. 2	Portland beds	Chilmark.
• ——— lineata.	.. t. 179, f. 1	Kimeridge Clay	Binley Farm, in Tisbury.
• ——— planata.	.. t. 257	Coral Rag	Steeple Ashton.
——— pumila.	Min. Con. t. 444, f. 4, 5, 6	Great Oolite	Ancliffe.
——— orbicularis.	.. f. 2, 3	..	Ibid.
• Auricula, inflata, n. s.		Lower Chalk and Green Sand	Norton Bavent, Upton Scudamore,
Avicula, inæquivalvis.	Min. Con. t. 244, f. 2	Kelloway Rock	Kelloways. [& Chute Farm.
• ——— echinata.	.. t. 243, f. 1	Cornbrash & Clay over Gt. Oolite	Chippenham and Bradford.
• ——— costata.	.. t. 244, f. 1	Clay over Great Oolite	Bradford.
• Belemnites, lanceolatus.	.. t. 600, f. 8, 9	U. Chalk, Gn. Sand, & Coral Rag	Boyton, Chute Farm, & Steeple Ashton
• ——— electrinus, n.	G. T. 2 ser. ii. t. 8, f. 18	Upper Chalk	Berwick St. Leonard & Downton
• ——— silicified.		Green Sand	Warminster.
Buccinum, unilineatum.	Min. Con. t. 486, f. 5, 6	Great Oolite	Ancliffe.
• Cardita, tuberculata.	.. t. 143	Micaceous Sand	Devizes.
• Cardium, dissimile.	.. t. 553, f. 2	Portland beds	Chicksgrove, in Tisbury.
• Chama, canaliculata.	.. t. 26	Green Sand	Chute Farm.
• ——— conica.	.. ..	..	Ibid.
• ——— crassa.	Strata iden. f. 6.	Clay over Great Oolite	Bradford.
• Cirrus, perspectivus.	Min. Con. t. 428, f. 1, 2	Upper and Lower Chalk	Norton Bavent and Heytesbury.
• ——— depressus.	.. f. 3	..	Ibid.

* Cirrus, elevatus, n. s.		Lower Chalk	Norton Bavent and Upton Scuda-
* ——— pyramidalis, n. s.		Green Sand	Chute Farm. [more.
* Crenatula, ventricosa.	Min. Con. t. 443	Chalk Marl	Norton Bavent and Bishopstrow.
* Cucullæa,		Portland beds	Tisbury.
——— rudis.	Min. Con. t. 447, f. 3	Great Oolite	Ancliffe.
——— minuta.	.. f. 4	..	Ibid.
* Dianchora, lata.	.. t. 80, f. 2	Upper Chalk and Green Sand	Norton Bavent, Chicklade, and
* ——— striata.	.. f. 1	Green Sand	Chute Farm. [Chute Farm.
* Drepanites, striatus, n. g.		..	Ibid.
Emarginula, clathrata.	Min. Con. t. 519, f. 1	Great Oolite	Ancliffe.
——— scalaris.	.. f. 3	..	Ibid.
——— tricarinata.	.. f. 2	..	Ibid.
2.— * Enomphalus, nodosus ?	.. t. 46	Chalk Marl	Stourton.
——— coronatus.	.. t. 450, f. 3	Great Oolite	Ancliffe. [minster.
* Exegyra, haliotoidea.	.. t. 25	Green Sand	Wincombe, in Donhead St. Mary, & War-
* ——— conica.	.. t. 605, f. 3	..	Stourhead and Warminster.
* ——— lævigata.	.. f. 4	..	Warminster.
* Fusus, longævus.	Brander, t. 6, f. 93	London Clay	Clarendon Park.
* Gryphæa, vesiculosa.	Min. Con. t. 369	Green Sand	Dinton and Diltons Marsh.
* ——— obliquata.	.. t. 112, f. 3	Coral Rag	Calne.
* ——— dilatata.	.. t. 149, f. 2	Kelloway Rock	Kelloways.
* ——— incurva.	.. t. 112, f. 1	..	Ibid and Bradford.
——— minuta.	.. t. 547, f. 4	Great Oolite	Ancliffe.
* Hamites, n. s.	.. p. 136	Upper Chalk	Norton Bavent.
* ——— plicatilis.	.. t. 234, f. 1	Chalk Marl	Bishopstrow.
* ——— armatus.	.. t. 168	Grey Sand	Boreham, near Warminster.
——— Parkinsoni.	Org. Rem. iii. t. 10, f. 5	Upper or Lower Green Sand	
Helix, Gentii.	Min. Con. t. 145	Micaceous Sand	Devizes.
* Inoceramus, Cuvieri.	.. t. 441, f. 1	Upper Chalk	Norton Bavent and Chicklade.
* ——— mytiloides.	.. t. 442	..	Warminster, Clay Hill, & Boyton.
* ——— striatus.	.. t. 582, f. 2	..	Heytesbury and Warminster.
* ——— involutus.	.. t. 583	..	Pertwood & Berwick St. Leonard.
* ——— Crippsii.	Geol. Suss. t. 27, f. 11	..	Chicklade.
* ——— latus.	Min. Con. t. 582, f. 1	Chalk Marl	Devizes.
* ———		Green Sand	Chute Farm.
* ——— fragment.		Portland beds	Chicksgrove, in Tisbury.
* ——— fragments.		in Flint and in Upper Chalk	Pertwood.
* Isocardia, elegans, n. s.		Micaceous Sand	Devizes.
——— tener.	Min. Con. t. 295, f. 2	Kelloway Rock	Kelloways.
——— minima.	.. f. 1	Cornbrash	Calne.
* Lima, rudis.	.. t. 214, f. 1	Green Sand and Coral Rag	Warminster and Calne.
* Lutraria, ovalis.	.. t. 226, f. 1	Chalk Marl ?	Upton Scudamore.
* Mactra,		Portland beds	Tisbury.
* Melania,		Green Sand	Chute Farm.
——— Heddingtonensis.	Min. Con. t. 39	Upper Oolite	Heddington, near Calne.
* ——— striata.	.. t. 47	Chalk Marl ? and Coral Rag	Upton Scudamore and Goatacre.
* ———		Chalk Marl ?	Upton Scudamore.
* ———		Coral Rag	Steeple Ashton.
* Modiola, pallida.	Min. Con. t. 8	Portland beds	Fonthill.
* ——— gibbosa.	.. t. 211, f. 2	Clay over Great Oolite	Bradford.
* Mya, Mandibula.	.. t. 43	Micaceous Sand	Devizes.
* —— depressa.	.. t. 418	Kimeridge Clay	Binley Farm, in Tisbury.
—— V-scripta.	.. t. 224	Kelloway Rock	Kelloways and Little Somerford.
* Mytilus, lanceolatus.	.. t. 439, f. 2	Portland beds	Tisbury. [Chute Farm.
* Nautilus, sinuatus.	.. t. 194	L. Chalk, C. Marl, and Gn. Sand	Norton Bavent, Bishopstrow, and
* ——— elegans.	.. t. 116	Chalk Marl	Norton Bavent, Bishopstrow, and
* ——— lævis, n. s.		..	Norton Bavent. [Stourton.
——— Comptoni.	Min. Con. t. 121	..	Earl Stoke.
* ——— simplex.	.. t. 122	Green and Grey Sand	Warminster.

2. Lege Enomphalus.

• Nautilus, platystomus, n. s.		Kelloway Rock	Kelloways.
• Nerita, sinuosa.	Min. Con. t. 217, f. 2	Portland beds	Chilmark.
• ——— Tisburiensis.		..	Tisbury and Fonthill.
——— minuta.	Min. Con. t. 463, f. 3, 4	Great Oolite	Ancliffe.
——— costata.	.. f. 5, 6	..	Ibid.
Nucula, variabilis.	.. t. 475, f. 2	..	Ibid.
——— mucronata.	.. t. 476, f. 4	..	Ibid.
——— Lachryma.	.. f. 3	..	Ibid.
Orbicula, granulata.	.. t. 506, f. 3	..	Ibid.
• Ostrea, undulata.	.. t. 238, f. 2	Gravel	Farley, near Salisbury.
• ——— semiplana.	.. t. 489, f. 3	Upper Chalk	Ditchampton.
• ——— small species.		..	Chicklade.
• ——— canaliculata.	Min. Con. t. 135, f. 1	..	Ditchampton.
• ——— magna, n. s.		Green Sand	Warminster.
• ——— carinata.	Min. Con. t. 365	..	Chute Farm.
• ——— costata.	.. t. 488, f. 3	Green Sand and Great Oolite	Ibid and Ancliffe.
• ——— macroptera.	.. t. 468, f. 2, 3	Green Sand	Warminster.
• ——— expansa.	.. t. 238, f. 1	Portland beds	Tisbury.
• ——— recurvirostra, n. s.		..	Chicksgrove, in Tisbury.
• ——— transversa, n. s.		..	Ibid.
• ——— small species.		..	Ibid.
• ——— gregaria.	Min. Con. t. 111	Coral Rag	Westbrook, in Bromham
• ——— solitaria, var.	.. t. 468	..	Steeple Ashton.
——— obscura.	.. t. 488, f. 2	Great Oolite	Ancliffe.
• ——— Marshii.	.. t. 48	Inferior Oolite	Trowbridge.
Patella, ancyloides.	.. t. 484, f. 2	Great Oolite	Ancliffe.
——— Nanus.	.. f. 3	..	Ibid.
• Pecten, nitidus.	.. t. 394, f. 1	Upper Chalk	Heytesbury and Chicklade.
• ——— Beaveri	.. t. 158	Chalk Marl	Stourton and Bishopstrow.
• ——— striatus ?	.. t. 394, f. 2, 3, 4	..	Norton Bavent.
• ——— quadricostatus.	.. t. 56, f. 1	Green Sand	Stourhead, Chute Farm, & Tisbury
• ——— quinquecostatus.	.. f. 4 to 8	..	Norton Bavent, and Chute Farm
• ——— sexcostatus.	Woodward's Catalogue	..	Chute Farm.
• ——— asper.	Min. Con. t. 370	..	Ibid.
• ——— obliquus.	.. ..	..	Ibid.
• ——— orbicularis.	.. t. 186	Green Sand and Mic. Sand	Warminster, Chute Farm, Fern,
——— arcuatus.	.. t. 205, f. 7	Micaceous Sand	Devizes. [and Devizes.
• ——— lamellosus.	.. t. 239	Portland beds	Chicksgrove, in Tisbury.
• ———		Coral Rag	Steeple Ashton.
——— fibrosus.	Min. Con. t. 136, f. 2	Kelloway Rock	Kelloways.
——— rigidus.	.. t. 205, f. 8	Forest Marble	Castle Combe.
——— vagans.	.. t. 543, f. 3, 4, 5	Great Oolite	Ancliffe and Bradford.
Pectunculus, minimus.	.. t. 472, f. 5	..	Ancliffe.
——— oblongus.	.. f. 6	..	Ibid.
Pileolus, plicatus.	.. t. 432, f. 1 to 4	..	Ibid.
——— lævis.	.. f. 5 to 8	..	Ibid.
• Pinna, tetragona.	.. t. 313, f. 1	Micaceous Sand	Devizes.
3. — • ——— ?		Portland beds	Tisbury.
• Plagiostoma, Hoperi.	Min. Con. t. 380	Upper Chalk	Norton Bavent and Chicklade.
• ——— spinosum.	.. t. 78	Upper and Lower Chalk	Norton Bavent, Heytesbury, and
——— obscurum.	.. t. 114, f. 2	Kelloway Rock	Kelloways. [Ditchampton.
• Plicatula, inflata.	.. t. 409, f. 2	Chalk Marl	Bishopstrow.
• ——— pectenoides.	.. f. 1	Green Sand	Chute Farm.
• ———		..	Ibid.
• Pollicepa, maximus.	Min. Con. t. 606, f. 4	Upper Chalk	Heytesbury.
Rissoa, acuta.	.. t. 609, f. 2	Great Oolite	Ancliffe.
——— duplicata.	.. f. 4	..	Ibid.
——— lævis.	.. f. 1	..	Ibid.
——— obliquata.	.. f. 3	..	Ibid.

3. Mytilus

* Scaphites, obliquus.	Min. Con. t. 18	L. Chalk and C. Marl	Heytesbury and Norton Bavent.
* ——— Uptonensis, n. s.		Lower Chalk	Upton Scudamore, Knook, & Codford.
* Serpula, ampulacea.	Min. Con. t. 597, f. 1 to 5	Upper Chalk	Norton Bavent, Heytesbury, and Salis-
* ———		..	Pertwood and Chicklade. [bury.
* ——— macropus.	Min. Con. t. 597, f. 6	Green Sand	Norton Bavent.
* ——— plexus.	.. t. 598, f. 1	..	Warminster, Semley, & Donhead
* ——— heptagona, n. s.		..	Chute Farm. [St. Mary.
* ——— enneagona, n. s.		..	Ibid.
* ——— antiquata.	Min. Con. t. 598, f. 4	..	Ibid.
* ——— tricarinata.	.. t. 608, f. 3, 4	Green Sand and Coral Rag	Ibid. and Steeple Ashton.
——— triangulata.	.. f. 7	Clay over Great Oolite	Bradford.
* Terebratula, subundata.	.. t. 15, f. 7	Upper Chalk	Warminster.
* ——— subrotunda.	.. f. 1	..	Ibid.
* ——— carnea.	.. f. 5, 6	..	Ibid. and Devizes.
* ——— obliqua.	.. t. 537, f. 5	Upper and Lower Chalk	Warminster, Norton Bavent, and
* ——— obesa.	.. t. 438	Lower Chalk	Norton Bavent. [Heytesbury.
* ——— semiglobosa.	.. t. 15, f. 9	..	Ibid. and Heytesbury.
* ——— lata.	.. t. 502, f. 1	Mic. Sand and Green Sand	Devizes and Warminster.
* ——— ovata.	.. t. 15, f. 3	Green Sand	Chute Farm.
* ——— biplicata.	.. t. 90	..	Ibid.
* ——— biplicata var. minor.	.. ..	..	Ibid.
* ——— intermedia.	.. t. 15, f. 8	..	Ibid.
* ——— Lyra.	.. t. 138, f. 2	..	Ibid.
* ——— Lyra var. minor.	Icones fossiles, 76	..	Ibid.
* ——— pectinata.	Min. Con. t. 138, f. 1	..	Ibid.
——— striatula.	.. t. 536, f. 3 to 5	..	Ibid. and Horningsham.
——— obsoleta.	.. t. 83, f. 7	..	Warminster.
* ——— lampas.	.. t. 101, f. 3	Kelloway Rock	Kelloways.
* ——— ornithocephala.	.. f. 1, 2, 4	..	Ibid.
* ——— spinosa.	Phillips, t. 9, f. 18	Corn Brash?	Limpley Stoke.
* ——— coarctata.	Min. Con. t. 312, f. 1 to 4	Clay over Great Oolite	Bradford.
——— digona.	.. t. 96, f. 1, 2, 3	..	Ibid.
——— Flabellula.	.. t. 535, f. 1	Great Oolite	Ancliffe.
——— furcata.	.. f. 2	..	Ibid.
——— hemispherica.	.. t. 536, f. 1	..	Ibid.
* Teredo, Nortonensis, n. s.		Upper Chalk	Norton Bavent.
* ——— in wood.		Gault	Crockerton.
* Thetis, major.	Min. Con. t. 513, f. 1 to 4	Green Sand and Mic. Sand	Earl Stoke and Devizes.
* Trigonia, aliformis.	.. t. 215	Green Sand	Chute Farm.
* ——— spinosa.	.. t. 86	Micaceous Sand	Devizes.
* ——— gibbosa.	.. t. 235	Portland beds	Tisbury.
* ——— var. tuberculated.	.. t. 236	..	Ibid.
* ——— Dædalea?	.. t. 88	..	Ibid.
* ——— clavellata, var.		..	Ibid.
* ——— incurva, n. s.		..	Ibid.
* ——— radiata, n. s.		..	Ibid.
* ——— magna, n. s.		..	Ibid.
* ——— lata, n. s.		..	Ibid.
* ——— n. s.		..	Ibid.
* Casts, various species.		..	Ibid.
* ——— clavellata, var. as at Radipole, Dorset.		Portland beds and Kimeridge Clay	Ibid. & Binley Farm, in Tis- bury, south-west of Pythouse.
——— pulla.	Min. Con. t. 508, f. 3	Great Oolite	Ancliffe.
——— imbricata.	.. t. 507, f. 2	..	Ibid.
——— cuspidata.	.. f. 4	..	Ibid.
* ——— costata.	.. t. 85	Inferior Oolite	Trowbridge.
* Trochus, maximus, n. s.		Upper Chalk	Norton Bavent, and Heytesbury.
* ——— conicus, n. s.		Lower Chalk	Upton Scudamore.
* ——— linearis.	Geol. Suss. t. 18, f. 17	Chalk Marl	Norton Bavent and Bishopstrow.

• Trochus, umbonatus, n. s.		Green Sand	Chute Farm.
• ——— depressus, n. s.		..	Stourhead.
• ——— rugatus, n. s.		Portland beds	Tisbury.
• ——— reticulatus.	Min. Con. t. 272, f. 2	Kimeridge Clay	Binley Farm, in Tisbury.
• Turbo, muricatus.	.. t. 240, f. 4	Coral Rag	Steeple Ashton.
——— obtusus.	.. t. 551, f. 2	Great Oolite	Ancliffe.
• Turrilites, costatus.	Min. Con. t. 36	Chalk Marl	Stourton and Bishopstrow.
• ——— undulatus.	.. t. 75	..	Bishopstrow and Heytesbury.
• ——— tuberculatus.	.. t. 74	Chalk Marl and Green Sand	Bishopstrow and Chute Farm.
• ———	.. p. 81, f. 36	Green Sand	Chute Farm.
• ——— obliquus, this is surely a Rostellaria.	.. t. 75, see also t. 349	Micaceous Sand	Devizes.
• Turritella, concava.	.. t. 565, f. 5	Portland beds	Chilmark.
——— muricata.	.. t. 499, f. 1, 2	Coral Rag	Steeple Ashton.
• Venus, varicosa?	.. iii. p. 173	Portland beds	Chicksgrove, in Tisbury.
• Vermicularia,		Flints over Chalk, perforated in every direction	Norton Bavent, Chittern, and Berwick [St. Leonard.
• ——— concava.	Min. Con. t. 57	Green Sand	Diltons Marsh.
• ——— convoluta, n. s.		..	Chute Farm.
Ostrea, &c. ?		Gault	Crockerton.
• Small bivaloes, indeterminate.		Purbeck beds	Lady Down, in Tisbury.
MOLLUSCA.			
Cephalopodes.			
• Sepia, the beak.		Green Sand	Norton Bavent.
CRUSTACEA.			
• Cancer, the hand claw.		Upper Chalk	Heytesbury.
• ——— an other hand claw.		..	Ibid.
——— the body shell.		Green Sand	Chute Farm.
ECHINIDA.			
• Echinus, areolatus.	Org. Rem. iii. t. 1, f. 12	Green Sand	Chute Farm.
• ——— ——— var. 1.	.. t. 1, f. 13	..	Ibid.
• ——— ——— var. 2.		..	Ibid.
• ——— tuberculatus.		Coral Rag	Calne.
• ——— eburneus.	Org. Rem. iii. t. 1, f. 10	Upper Chalk	Chicklade, Wiley, & Ditchampton
• ——— Benettiæ.	Icones fossiles, f. 35	Green Sand	Chute Farm.
• ——— claviger.	Org. Rem. iii. t. 4, f. 1 & 21	Upper Chalk	Ditchampton and Chicklade.
• ——— pyriformis.	Strata iden. Gn. Sand, f. 13	Green Sand	Chute Farm.
• Cidaris, diadema.	Org. Rem. t. 1, f. 4	Green Sand and Coral Rag	Ibid. and Calne.
• ——— intermedia.	.. t. 4, f. 20	Coral Rag	Calne.
• ——— florigemma.	Phillips, t. 3, f. 12	..	Ibid.
——— monilipora.	.. t. 127		
• ——— mammillata.	Org. Rem. iii. t. 1, f. 6	Coral Rag	Calne.
• ——— papillata.	Phillips, t. 1, f. 14, a	Upper Chalk	Pertwood.
• ———	Org. Rem. t. 4, f. 2	..	Ibid. &c.
• ———	.. f. 3	..	Chicklade, Wiley, & Ditchampton
• ———		..	Pertwood.
• ———		..	Ibid.
• ——— casts.		Flint Casts	
Clypeus, semisulcatus.	Phillips, t. 3, f. 17	Coral Rag	
——— dimidiatus.	.. f. 16	..	
• ———		Green Sand	Chute Farm.
• Galerites, Albogalerus.	Geol. Sus. t. 17, f. 8	Flint Casts	Netherhampton.
• ——— subrotundus.	.. f. 15	Upper Chalk	Warminster and Clay Hill.
• ——— depressus, var. minor.	Strata iden. Gn. Sand, f. 12	Green Sand	Chute Farm.
• Ananchytes, scutata.	Org. Rem. iii. t. 2, f. 4	Flint Casts	Clarendon, Boyton, & Pertwood
• ——— var. globosa.		Upper Chalk	Norton Bavent and Heytesbury.

* Spatangus, cordiformis.		Upper Chalk	Norton Bavent and Heytesbury.
* ——— var. sulcis crispis.		..	Pertwood, Chicklade & Hindon.
* ——— var. cristatus.	Org. Rem. iii. t. 3, f. 11	Flint Casts	Pertwood, &c.
* ——— planus.	Strata iden. Gn. Sand f. 14	Green Sand	Chute Farm.
* ——— lacunosus.	Org. Rem. iii. t. 3, f. 12	..	Warminster and Boreham.
——— argillaceus.	Phillips, t. 2, f. 4	Clay	
* ——— fossarius, n. s.		Green Sand	Warminster.
* ——— grandis, n. s.		Chalk and Flint	Heytesbury.
* Spines, of E. claviger.	Org. Rem. iii. t. 4, f. 1 & 21	Upper Chalk	Ditchampton and Chicklade.
* ———of C. florigemma.	Phillips, t. 3, f. 13	Coral Rag	Calne.
* ———of C. intermedia.		..	Ibid.
* ——— conic.	Org. Rem. iii. t. 4, f. 2	Upper Chalk	
* ——— cylindrica.	.. f. 3	..	Chicklade, &c. [Bower Chalk.
* ——— cucumerina.	.. t. 4, f. 17	..	Ibid. Wiley, Ditchampton, and
* ——— tuberculata.		..	Pertwood and Chicklade.
* ——— of S. cordiformis, var. s. c.		..	Chickalde.
* Dentes Echinorum.		Upper Chalk and Coral Rag	Ibid. Bapton, and Bradford.
STELLERIDES. OF LAMARCK.			
* Asterias, regularis.	Org. Rem. iii. t. 1, f. 3	Upper Chalk	Ditchampton.
* ——— semilunatas.	.. f. 1	..	Ibid and Chicklade.
POLYPI LAMELLIFERI. ORDER 3, LAMARCK.			
* Caryophyllea, annularis.	Org. Rem. ii. t. 5, f. 5	Coral Rag	Steeple Ashton.
* ——— centralis.	Geol. Suss. t. 16, f. 2, 4	Upper Chalk and Flint	Norton Bavent, Heytesbury, Wiley, &
* Cyclolites,	Strata iden. Gn. Sand, f. 15	Green Sand	Chute Farm. [Stockton.
* Explanaria, flexuosa.	Org. Rem. ii. t. 7, f. 11	Coral Rag	Steeple Ashton.
4.— * Madrepora, silicified.	.. t. 6, f. 12, 13	Portland beds	Tisbury.
* Astrea, arachnoides.	.. t. 6, f. 4, 6	Coral Rag	Steeple Ashton.
* ——— tubulifera.	Phillips, t. 3, f. 6	..	Ibid.
* ———		..	Ibid.
* ———		..	Ibid.
* ———		..	Ibid.
* ———		..	Ibid.
POLYPI FORAMINATI. ORDER 4, LAMARCK.			
Tubiporadæ.			
* Tubipora, minuta, n. s.		Green Sand	Warminster.
———	Strata iden. f. 4	Clay over Great Oolite	Bradford.
* Terebellaria, ramosissima.	.. f. 5	Great Oolite	Ibid. and Farley Castle.
Milleporadæ.			
Millepora, ramosa.	Org. Rem. ii. t. 8, f. 3		
* ——— globularis.	Phillips, t. 1, f. 12	Upper Chalk	Chicklade, Bower Chalk.
* ——— polymorpha, n. s.		Upper Chalk and Green Sand	Wiley, Berwick, St. Leonard, Pertwood, and Chute Farm.
* ——— undulata, n. s.		..	Ditchampton and Warminster.
* ——— canaliculata, n. s.		Chalk Marl	Norton Bavent.
* ——— reticulata, n. s.		Green Sand	Warminster.
* ——— var. minor. n. s.		..	Ibid.
* ——— dichotoma, n. s.		..	Semley.

4. Madrepore, Tisburiensis.

* Millepora dichotoma, var. min. n.s.		Green Sand	Semley and Tisbury.
* ——— retipora.	Strata iden. Gn. Sand, f. 16	..	Warminster and Chute Farm.
* ———		Upper Chalk	Bower Chalk, Wiley, and Chick-
* ———		..	Chicklade & Ditchampton. [lade.
* ———	Strata iden. f. 5	Clay over Great Oolite	Bradford.
* Lunulites, urceolatus.	Phillips, t. 1, f. 11	Upper Chalk and Green Sand	Ibid. and Chute Farm.
Echaradæ.			
* Retipora,		Upper Chalk	Ditchampton.
* Eschara,	Geol. Suss. t. 15, f. 4	Chalk Flints	Pertwood.
* ——— foliacea ?		Pyrites, from Upper Chalk	Battlesbury, near Warminster.
Berenicea, diluviana.	Geol. Eng. p. 214	Great Oolite	Bradford.
Alecto, dichotoma.	.. ..	..	Ibid.
POLYPI NATANTS.			
ORDER 5, LAMARCK.			
* Apiocrinites, rotundus.	Miller, t. 1	Clay over Great Oolite	Bradford.
* ——— the roots.	.. ..	..	Ibid.
* ——— rotundus, var.	Cumberland, f. 16	..	Ibid.
* ——— ellipticus.	Miller, t. and p. 3	Upper Chalk	Chicklade and Bapton.
* Pentacrinus, moniliformis.	.. p. 116, f. 18, Appendix	Upper Chalk and Green Sand	Heytesbury and Chute Farm.
* ——— vertebral column.	Org. Rem. ii. t. 13, f. 64	on Chalk Flint	Norton Bavent.
* Encrinus,		Green Sand	Chute Farm.
———	Min. Con. v. t. 68	Great Oolite	Ancliffe.
* Eugeniacrinus ? n. s.		Upper Chalk	Chicklade.
Marsupites, ornatus.	Miller, p. 134	..	near Warminster ?
POLYPI CORTICIFERI.			
ORDER 6, LAMARCK.			
Corallinidæ.			
Isis ?	Org. Rem. ii. 73	Limestone	Calne.
* ——— ?		Coral Rag	Steeple Ashton and Bradford.
———	Min. Con. v. t. 68	Great Oolite	Ancliffe.
POLYPI GLUTINUS.			
ORDER 7, LAMARCK.			
Spongiadæ.			
* Spongia, botryoides.	Icones fossiles, f. 82	Green Sand	Warminster.
* ——— bullata, n. s.		..	Chute Farm.
* ——— undulata, n. s.		..	Warminster.
* ——— cucullata, n. s.		..	Ibid.
* Spongus, labyrinthicus.	Geol. Suss. t. 15, f. 7	Chalk Flints	Norton Bavent.
* Spongites, cyathoides, n. s.		Chalk Marl	Ibid.
* ——— urceolatus, n. s.		..	Ibid.
* ——— marginatus, n. s.		..	Ibid.
* Ventriculites, radiatus.	Geol. Suss. t. 11	Upper Chalk	Pertwood & Berwick St. Leonard
* ——— alcyonoides.	Org. Rem. ii. t. 10, f. 12	..	Norton Bavent and Heytesbury.
* ——— quadrangularis.	Geol. Suss. t. 15, f. 6	Chalk Flints	Wiley.
* ——— Benettiæ.	.. f. 3	..	Heytesbury.
* ——— reticulatus, n. s.		Upper Chalk	Pertwood.
* ——— punctatus, n. s.		..	Ibid.
* ——— notatus, n. s.		..	Ibid. [Wiley.
* ——— quadratus, n. s.	Goldfuss, t. 33. f. 1.	Upper Chalk and Chalk Flints	Ibid. Berwick St. Leonard, and
* ———		Chalk Flints	Norton Bavent and Heytesbury.
* ——— the roots.		..	Pertwood and Ditchampton.

* Choanites, subrotundus.	Geo. Suss. t. 15, f. 2	Upper Chalk	Heytesbury and Warminster.
* ——— Konigi.	.. t. 16, f. 19, 20	Upper Chalk and Chalk Flints	Pertwood, Berwick St. Leonard,
* ——— flexuosus.	.. t. 15, f. 1	Chalk Flints	Norton Bavent. [& Ditchampton.
* Alcyonium, fungiformis.	Strata iden. Gn. Sand f. 17	Green Sand	Chute Farm.
* Polypothecia, clavellata, n. s.	Miller's Prospectus	Chalk Flints	Pertwood, Wiley, & Ditchampton.
* ——— fissa, n. s.	..	..	Wiley.
* ——— latissima, n. s.	..	..	Berwick St. Leonard & Pertwood.
* ——— maxima, n. s.	..	..	Berwick St. Leonard.
* ——— apparently the Stems.	..	..	Ibid, Wiley, and Pertwood.
* ——— palmata, n. s.	..	Chalk Flints and Green Sand	Wiley, Pertwood, & Warminster.
* ——— infundibulum.	Strata iden. Gn. Sand, f. 1	..	Pertwood and Warminster.
* ——— var. major.	Org. Rem. ii. frontisp.	Green Sand	Warminster.
* ——— var. minor. n. s.	Miller's Prospectus	Chalk Flints and Green Sand	Wiley, Pertwood, & Warminster.
* ——— pyriformis, n. s.	..	Green Sand	Warminster and Boreham.
* ——— sphærocephala, n. s.	Goldfuss t. 35. f. 10.	..	Warminster.
* ——— biloba, n. s.	..	..	Chapmanslade.
* ——— triloba, n. s.	..	..	Warminster.
* ——— quadriloba, n. s.	..	..	Ibid. and Chapmanslade.
* ——— quinqueloba, n. s.	..	..	Ibid.
* ——— sexlobata, n. s.	..	..	Ibid. and Corsley.
* ——— septemloba n. s.	..	Yellow Sand	Ibid. and Corsley.
* ——— octoloba, n. s.	..	..	Chapmanslade and Corsley.
* ——— novemloba n. s.	..	Grey Sand	Warminster.
* ——— dichotoma, n. s.	..	Grey and Yellow Sand	Ibid.
* ——— divaricata, n. s.	..	Grey Sand	Ibid.
* ——— expansa, n. s.	Goldfuss t. b. f. 4, a.	Green and Grey Sand	Ibid.
5) * ——— undulata, n. s.	..	Green Sand	Ibid.
* ——— gregaria, n. s.	..	Grey Sand	Ibid.
* ——— agariciformis, n. s.	..	Grey, Green, and Yellow Sand	Ibid.
* ——— cepæformis, n. s.	..	Green Sand	Ibid.
And many more species.	..	..	Ibid.
WOODS.			
* Supposed leaves of Larch.	Geo. Suss. t. 9, f. 2, 12	U. Chalk and C. Marl	Chicklade and Norton Bavent.
* Small bits of Wood.		Green Sand	Chute Farm.
* Wood, looking as if burnt.		Green Sand or Clay	Sambourn, near Warminster.
* ——— pierced by Teredines.		Gault	Crockerton.
* ——— not so pierced.		..	Ibid.
* ——— a large block.		Portland beds	Lawn Quarry in Tisbury.
* ——— a large branch.		..	Ibid.
* ——— with knots.		..	Tisbury.
* ——— like Fir.		..	Lawn Quarry in Tisbury.
* ——— with quartz crystals.		..	Ibid.
* ——— silicified & greenish.		Kimeridge Clay	Semley and Tisbury.
* Cone, like a Fir Cone.		Portland beds	Fonthill.
Cycadeoidea?		..	Tisbury.
* Resin, like that at Highgate.		Gault	Crockerton, and Rudge in Chil-
* Fibrous Carbonate of Lime.			Dinton. [mark.
* Crystallized Carbonate of Lime, in block & stalactite.		Upper Chalk	Bishopstrow and Knook.
* Botryoidal Limestone.		Portland beds	Tisbury.
* Sulphate of Barytes.	Geo. Eng. p. 174	Portland beds and K. Clay	Ibid and Semley.
* Septaria.		Kimeridge Clay	Semley.
* Pyrites, tortoise shaped.		Upper Chalk	Battlesbury, near Warminster.
* Sulphuret of Iron, in balls.		..	Pertwood and Great Ridge.
* ——— various shapes.		..	Codford, &c.

Vardy, Printer, Warminster.

* Polypothecia, complexa n. s.
* P. ——— obliqua n. s.

Grey Sand
ditto & Chalk Flints

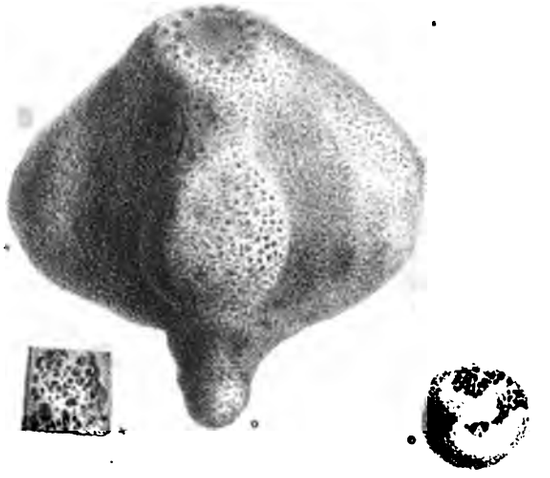
Warminster
ditto and Wiley

1. *Polypothecia Cepæformis.*
2. *P. sphærocephala.*
3. *P. pyriformis.*

E D Smith del.

1.

2.



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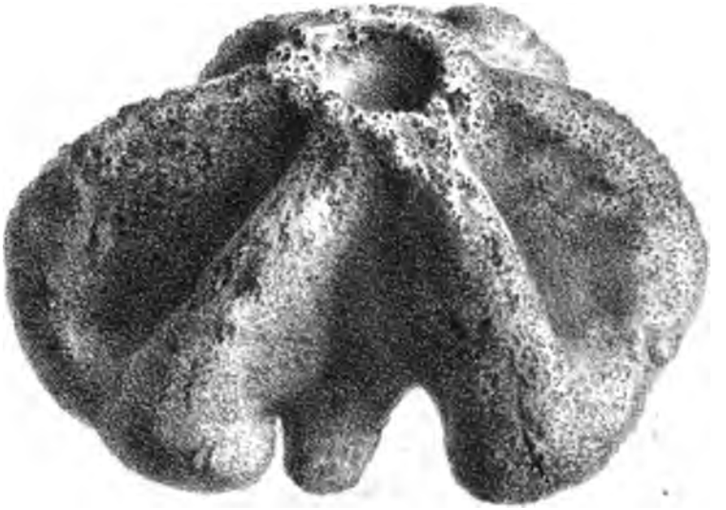
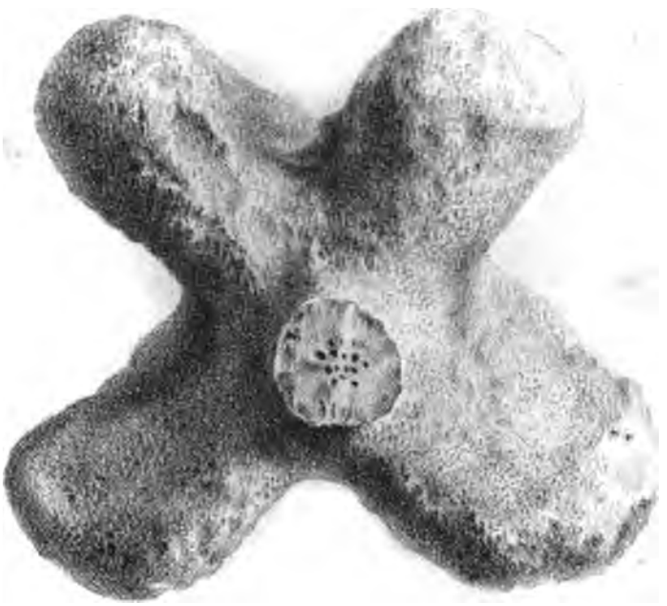
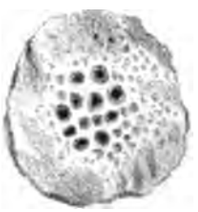
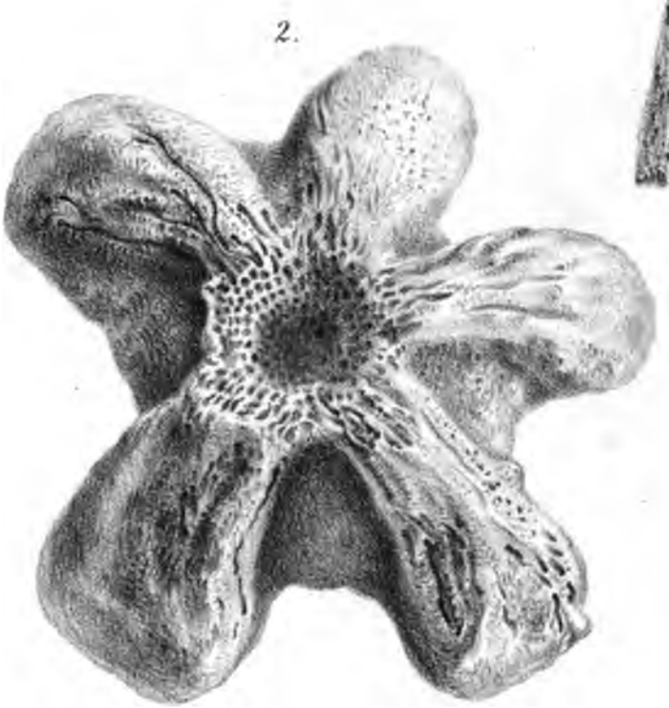


1. *Polypothecia biloba.*
2. *P. triloba.*
3. *P. triloba. var.*

E. D. Smith. del. Chelsea Common



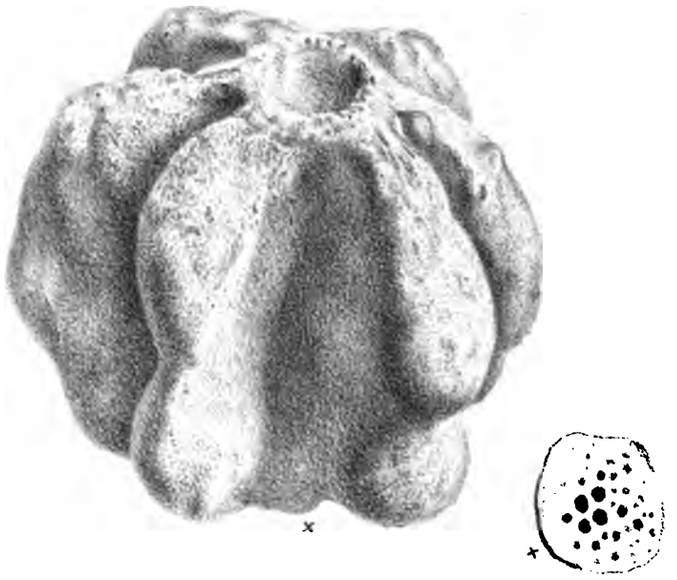




1. *Polypothecia quadriloba.*
2. *P. quinqueloba.*

E. D Smith del.t Chelsea, Commun.

2.



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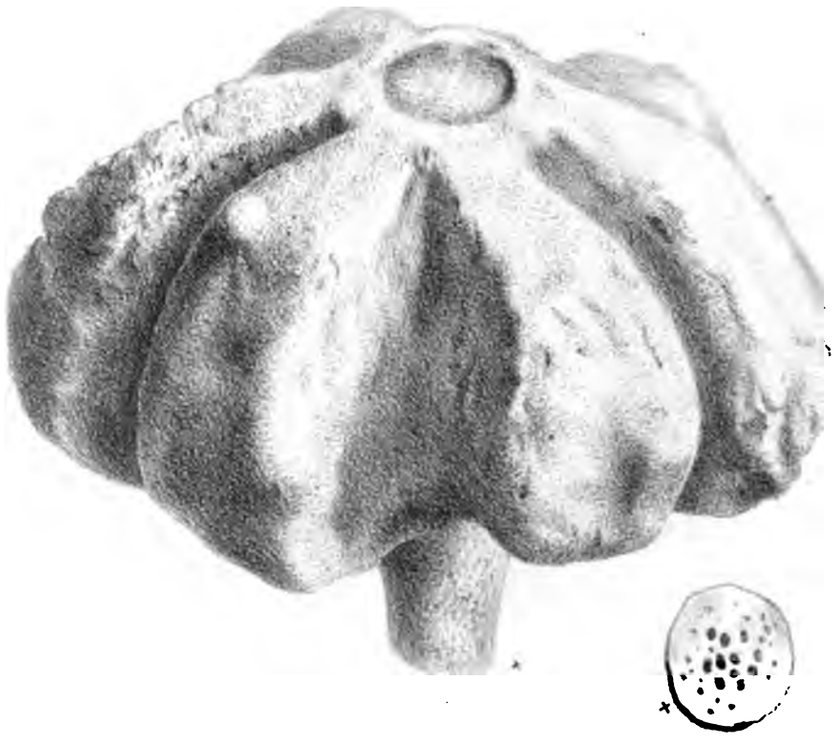
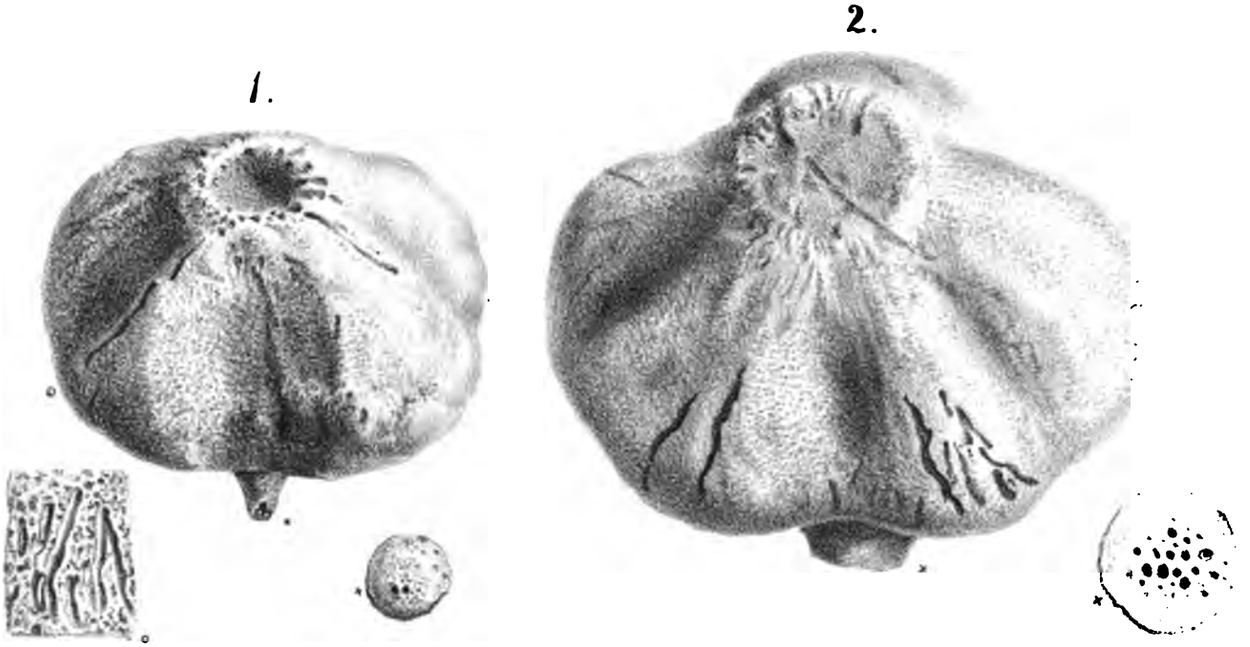
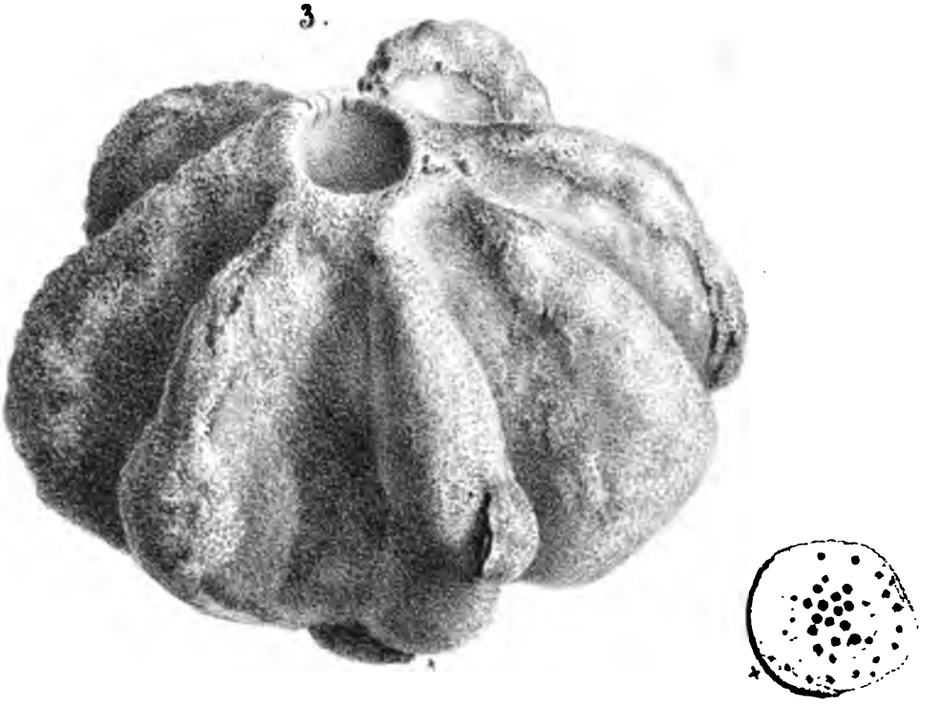


1. Polypothecia sexlobata.
2. P. sexlobata, var.

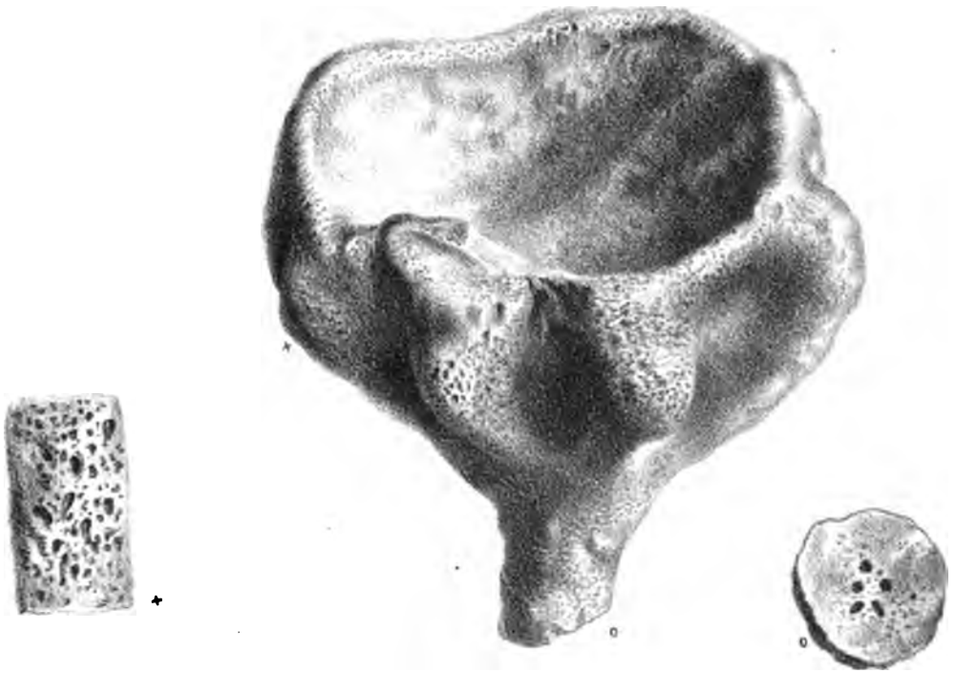




1. Polypothecia quadriloba. var.
2. P. quinqueloba. var.
3. P. septemloba.

E.D. Smith. del.

1.



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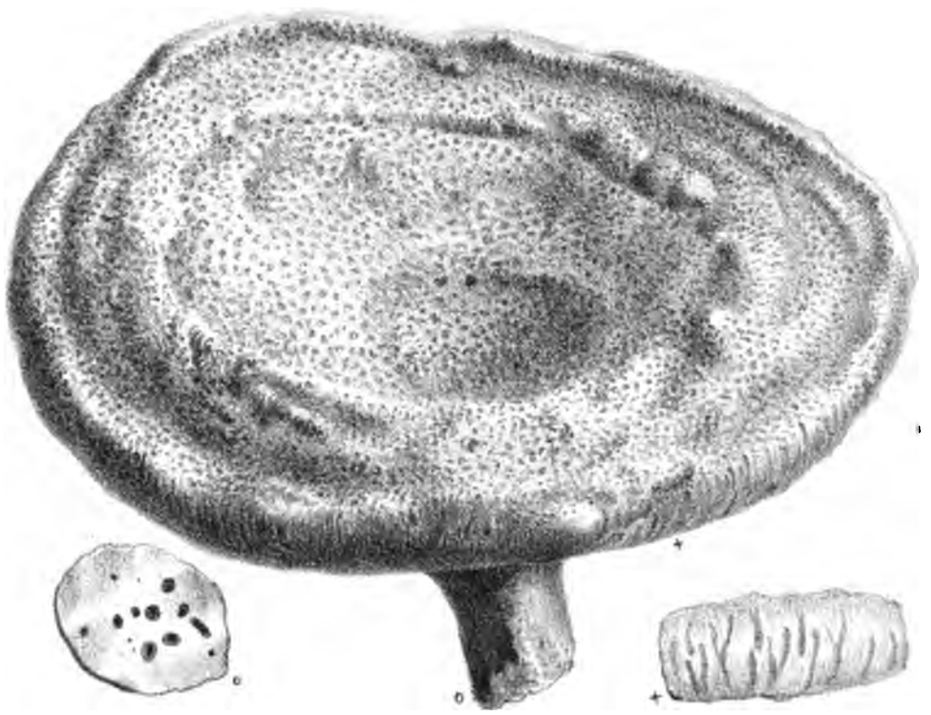
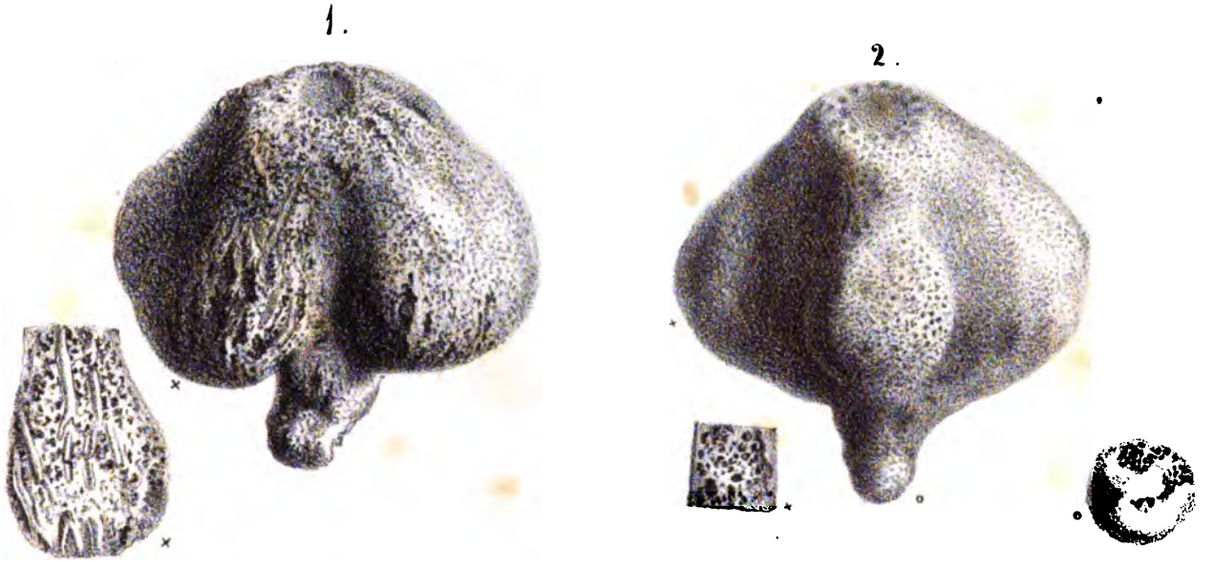
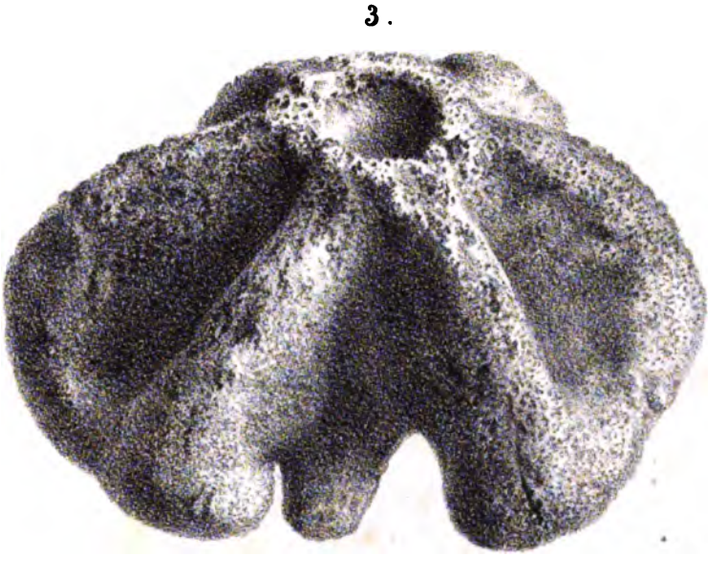


1. *Polypothecia complexa.*
2. *P. expansa.*

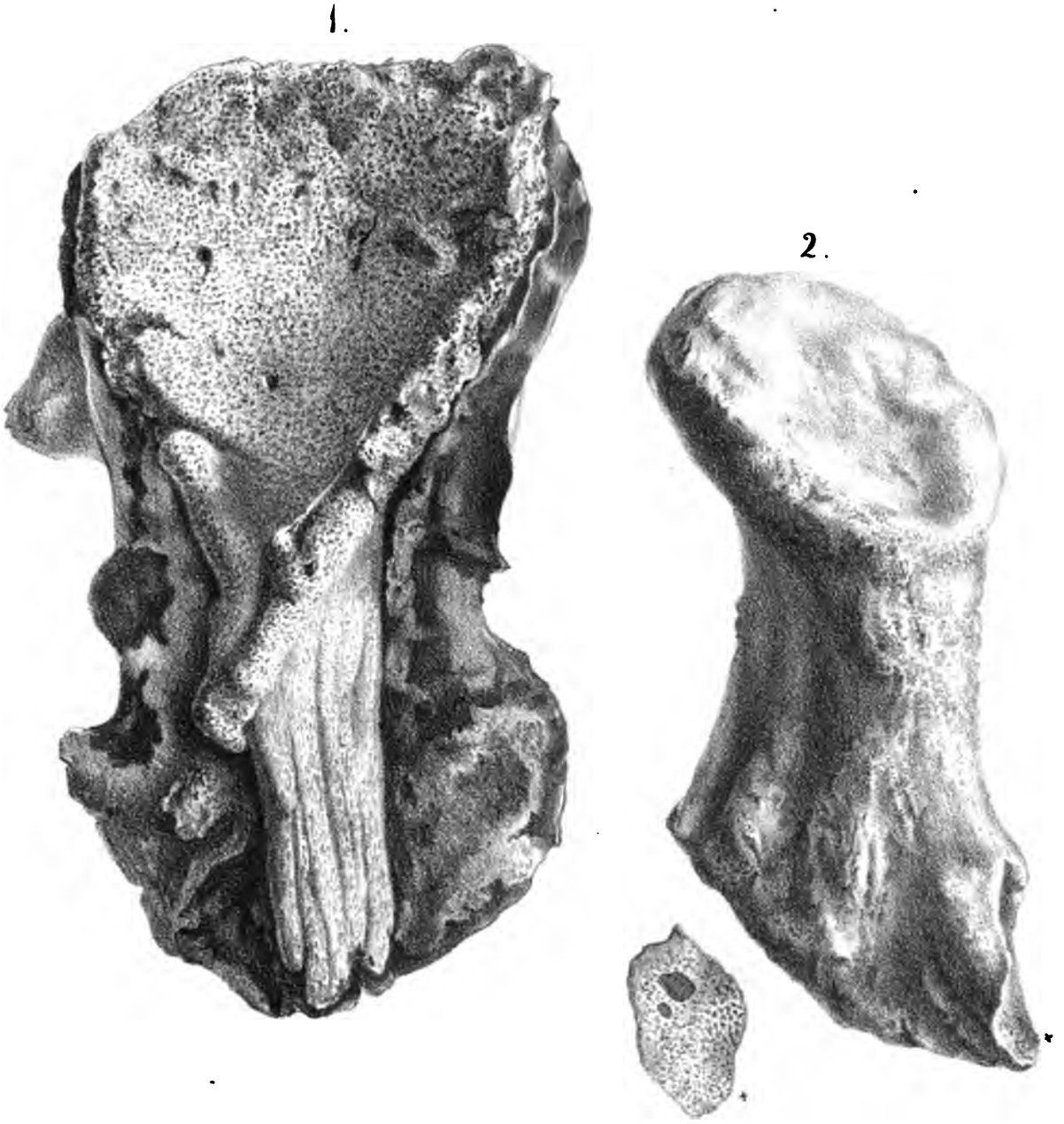
E.D. Smith del. et lith.





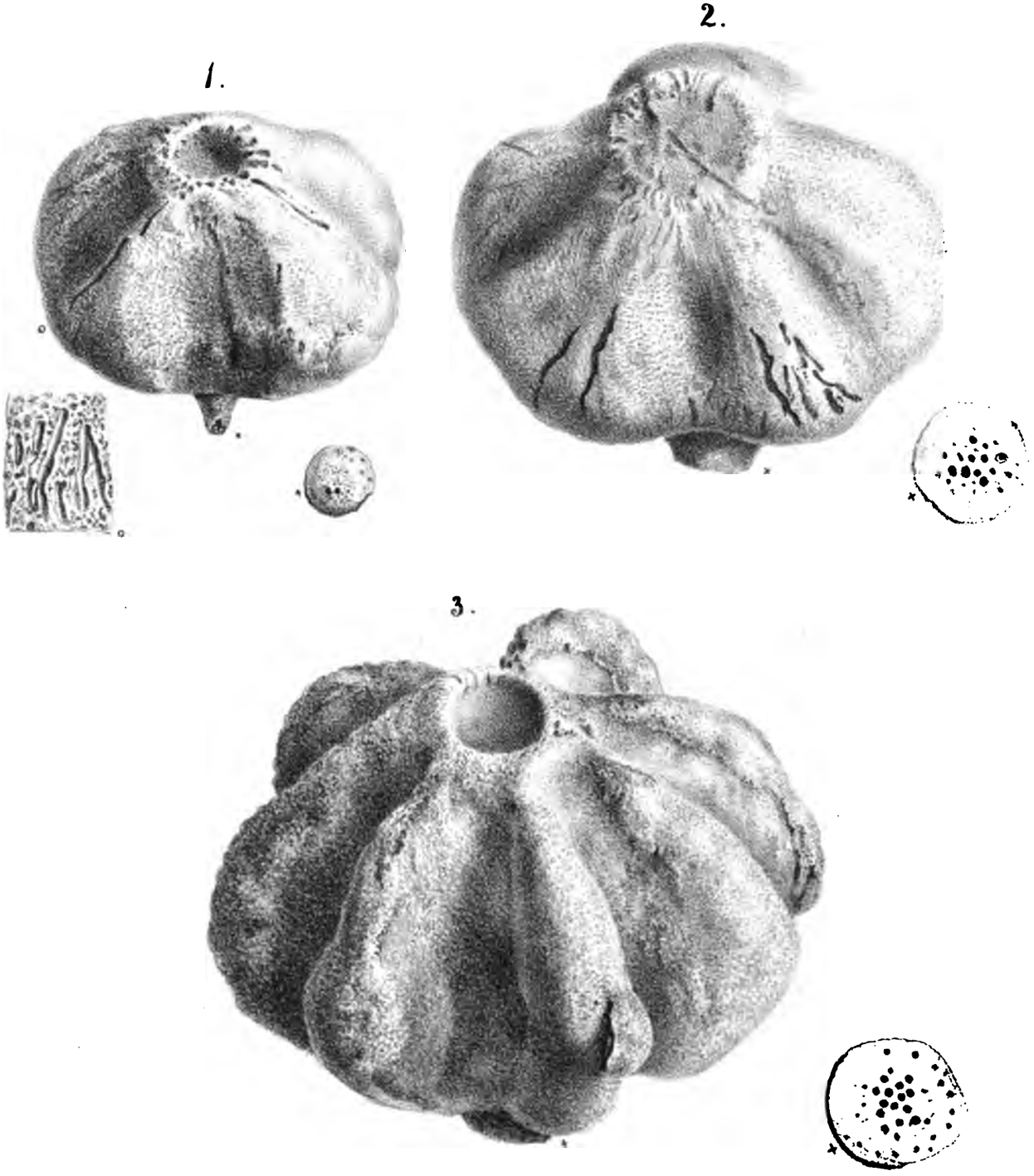
1. *Polypothecia biloba.*
2. *P. triloba.*
3. *P. triloba. var.*

E.D. Smith. del.t. Chelsea Common.



1. Polypothecia obliqua. flint.
2. P. obliqua. sand.

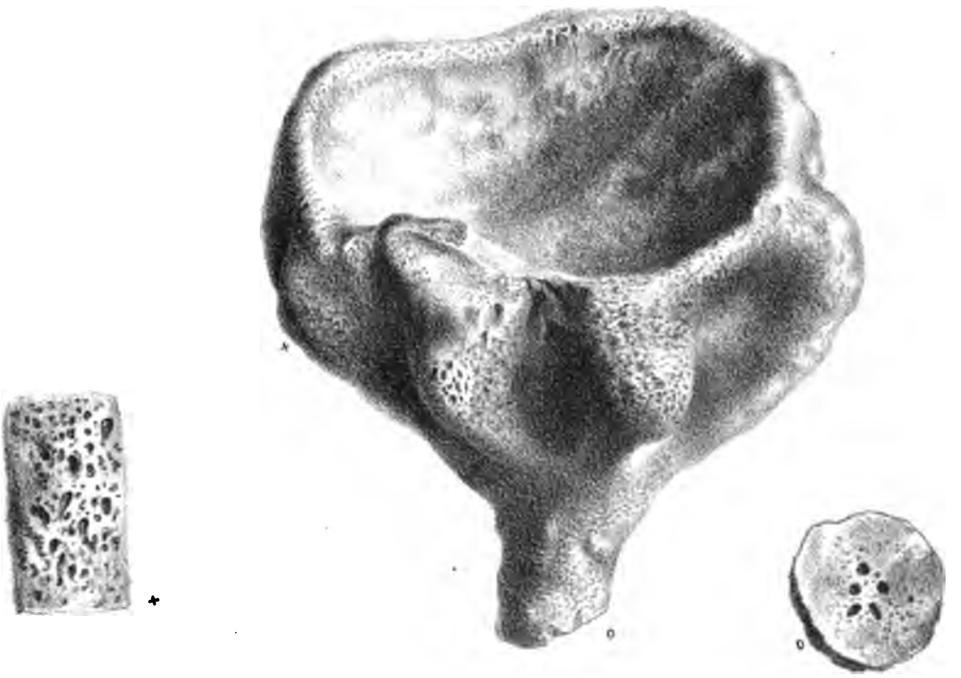
Polypothecia infundibulum. n. sp.



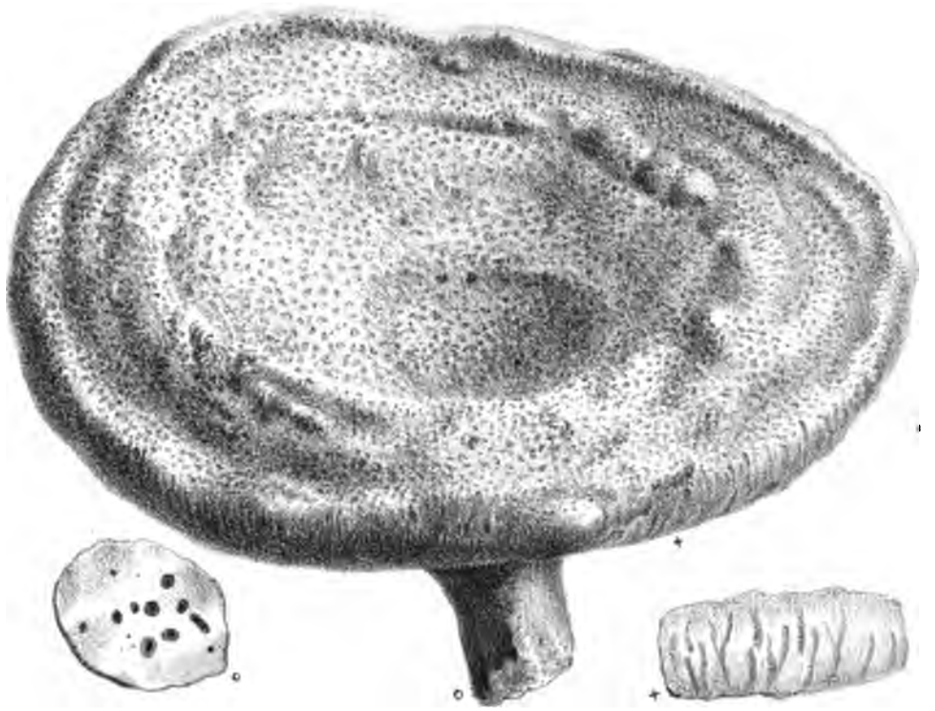
1. Polypothecia quadriloba. var.
2. P. quinqueloba. var.
3. P. septemloba.

E.D. Smith del.

1.

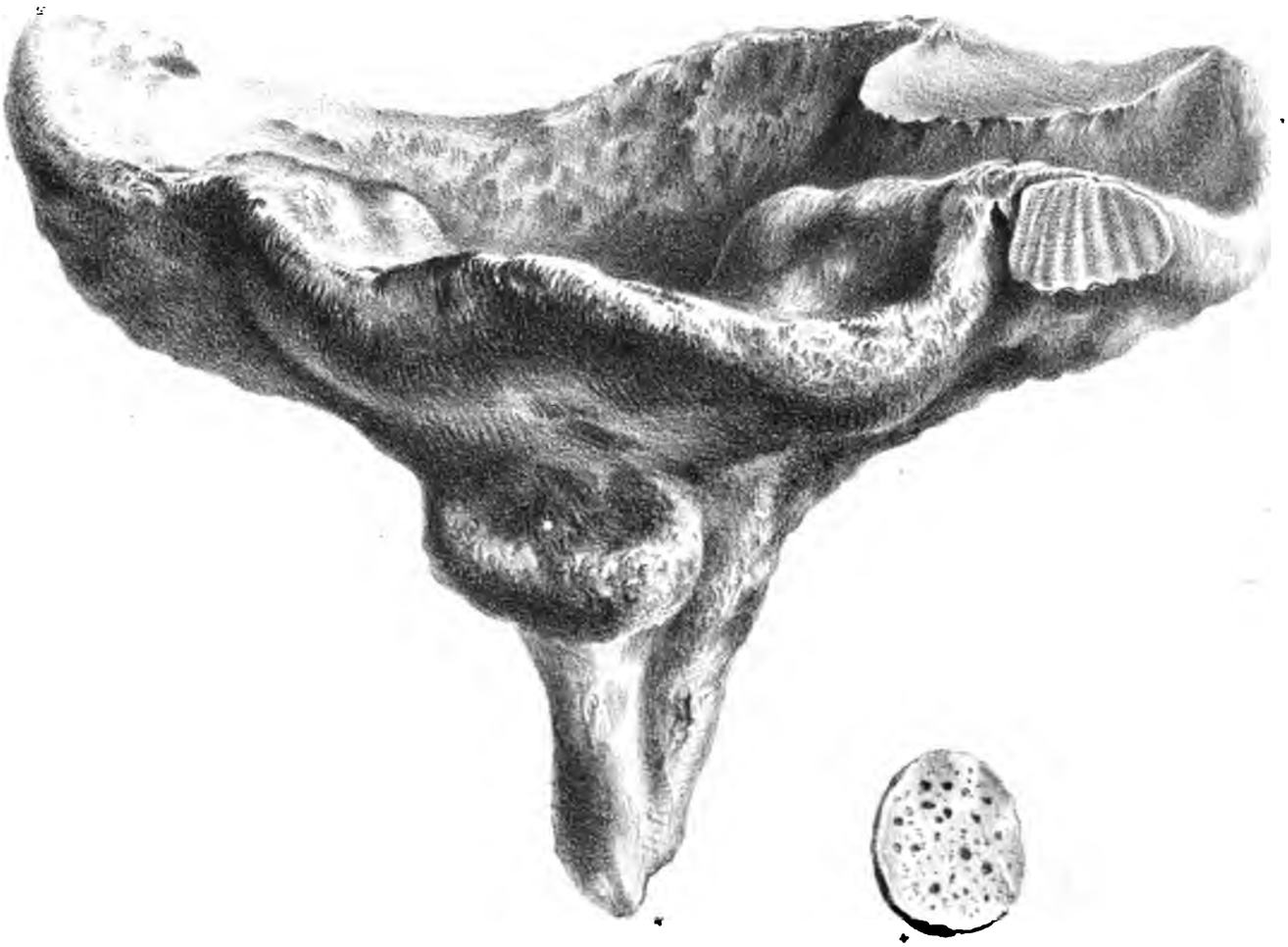


2.



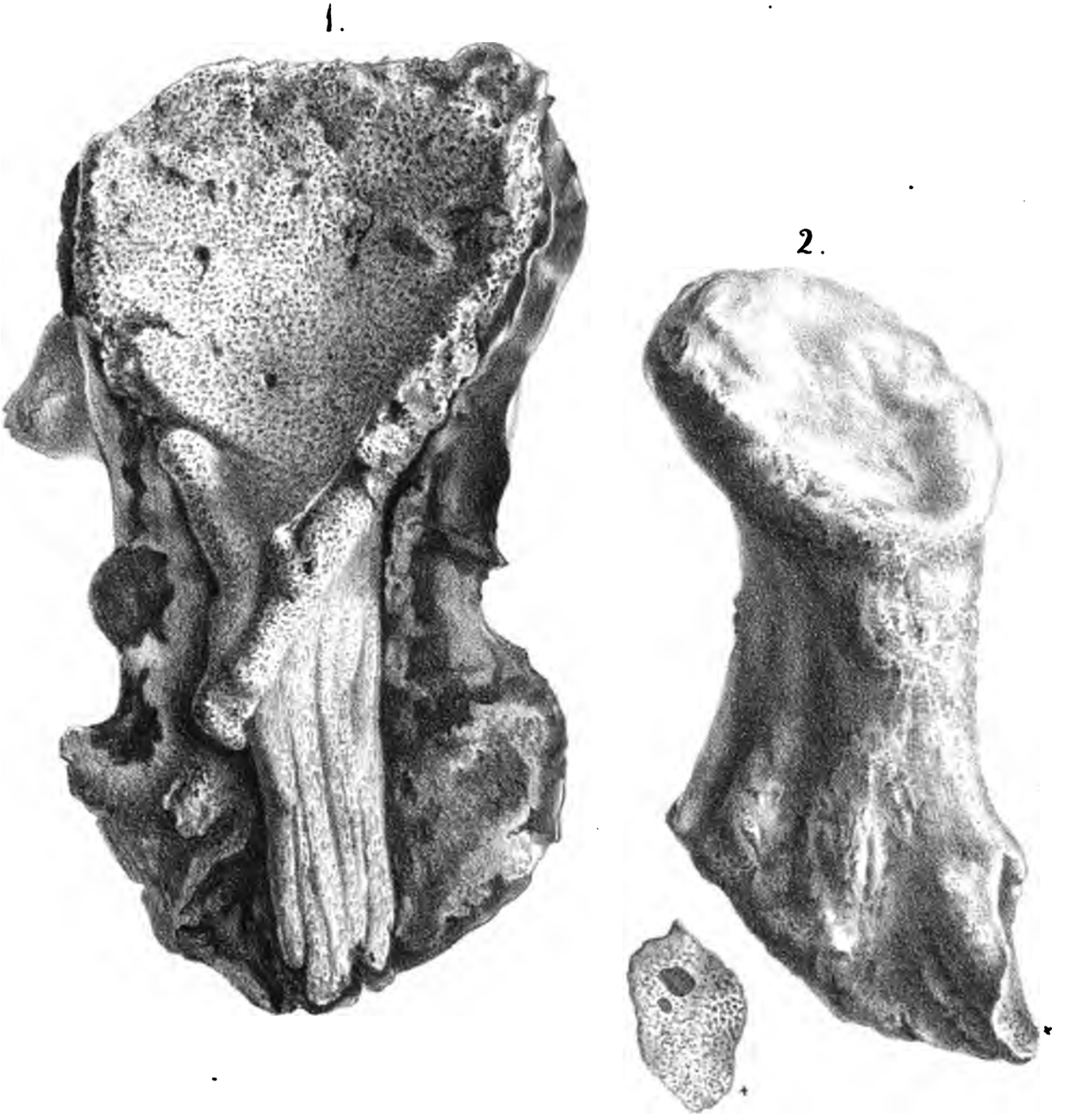
1. *Polypothecia complexa.*
2. *P. expansa.*

E.D. Smith del. et lith.



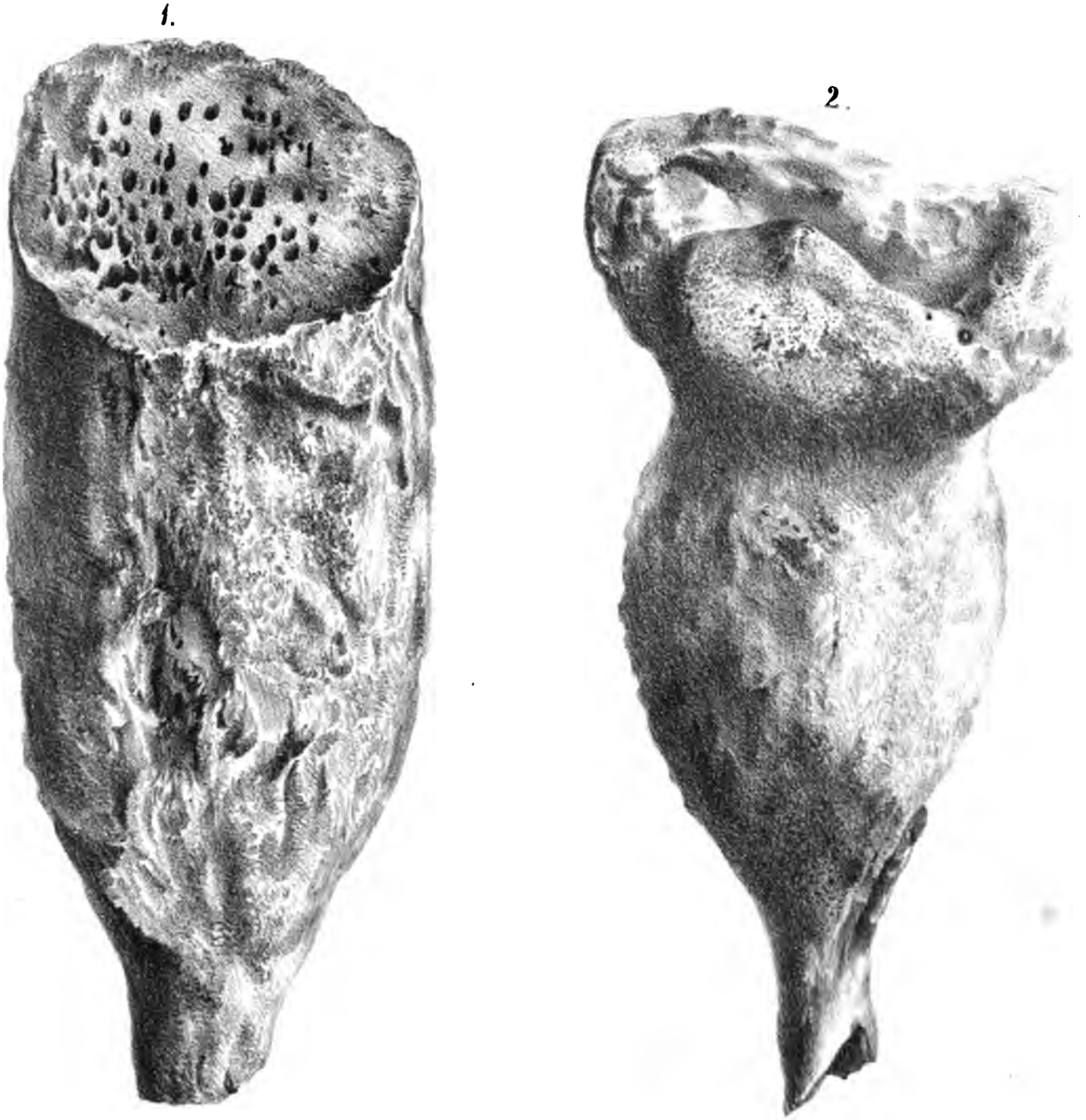
Polypothecia undulata.

E.D.Smith. del!



1. Polypothecia obliqua. flint.
2. P. obliqua. sand.

Polypothecia infundibulum.



1. Polypothecia
2. P.

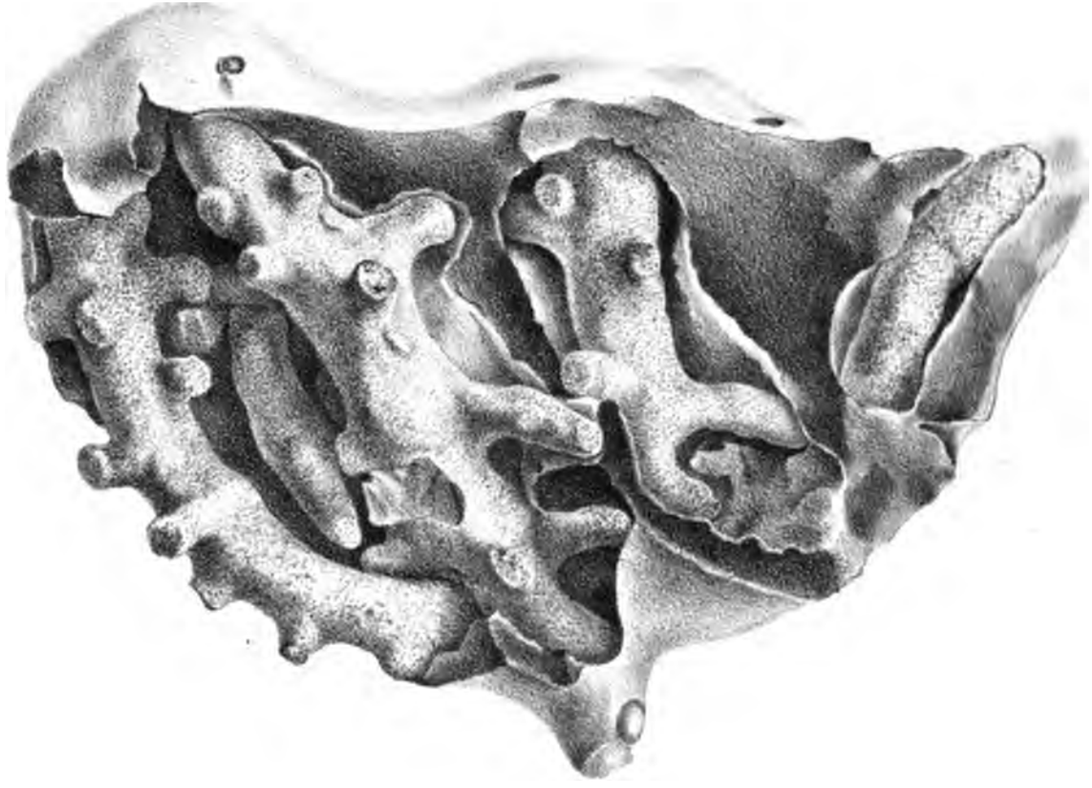
E.D.Smith del.

1.

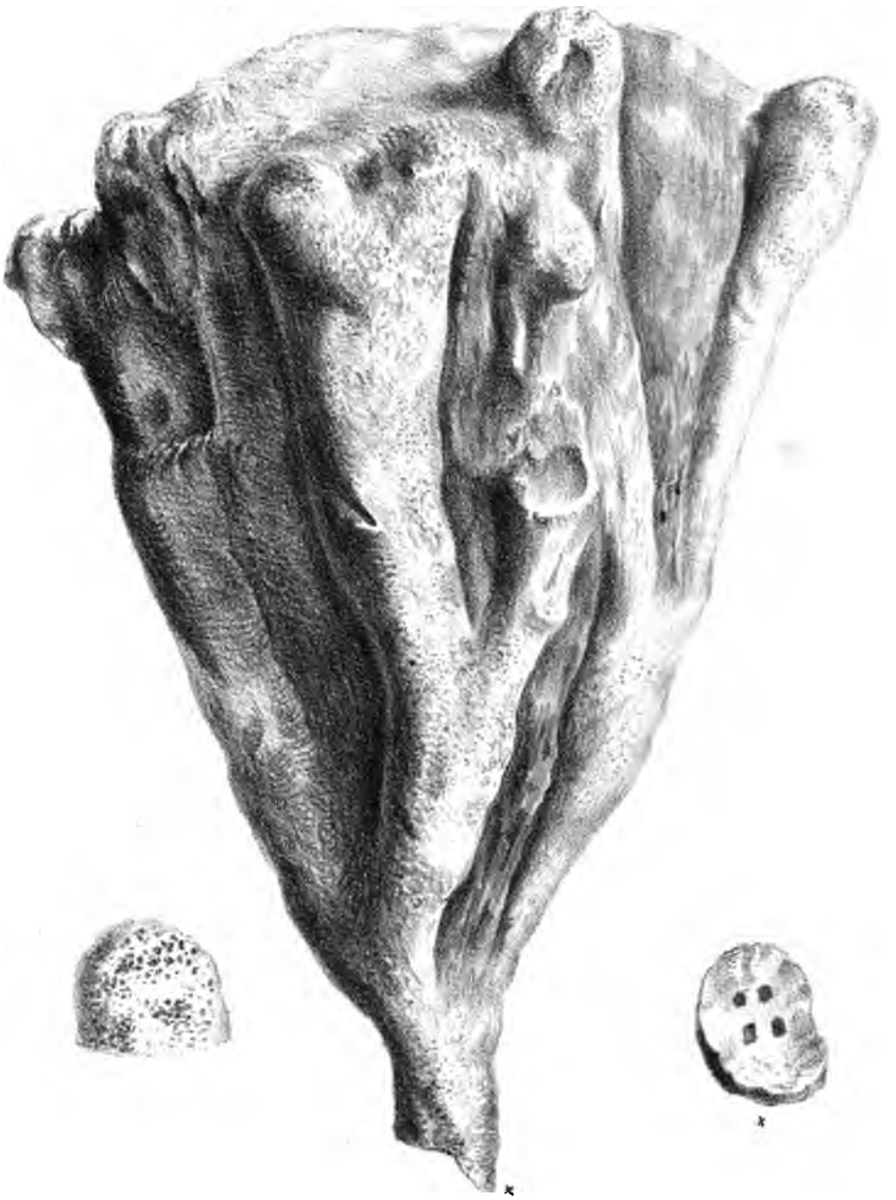
2.

1 Polypothecia palmata, sand.
2 P palmata, fint

Polypothecia fissa, flint.



Polypothecia clavellata, flint.



Polypotheoia dichotoma.

E D. Smith. del.

E.D.Smith. del.

Polypothecia gregaria.

1.

2.

1. *Polypothecia agariciformis.*
2. *P. agariciformis. var.*

E.D. Smith del.

Drepanites striatus.

Trochus rugatus.

1.

2.

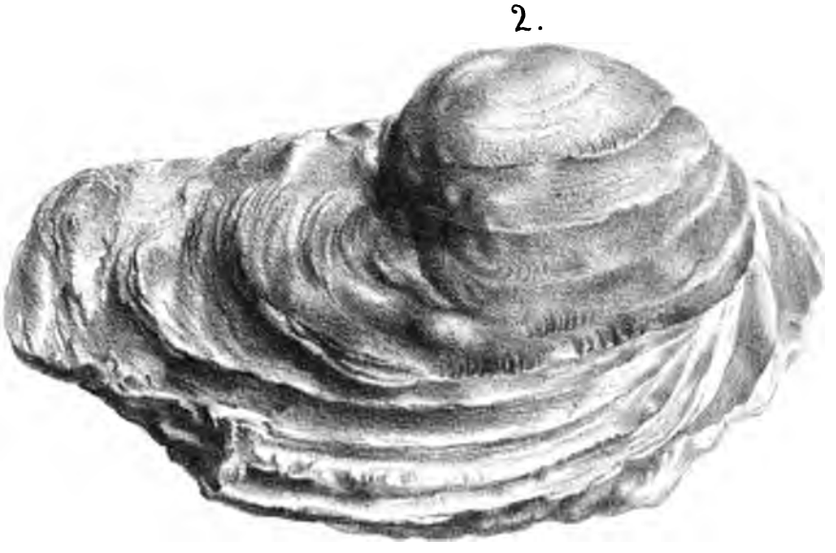
3.

4.

front view

internal view

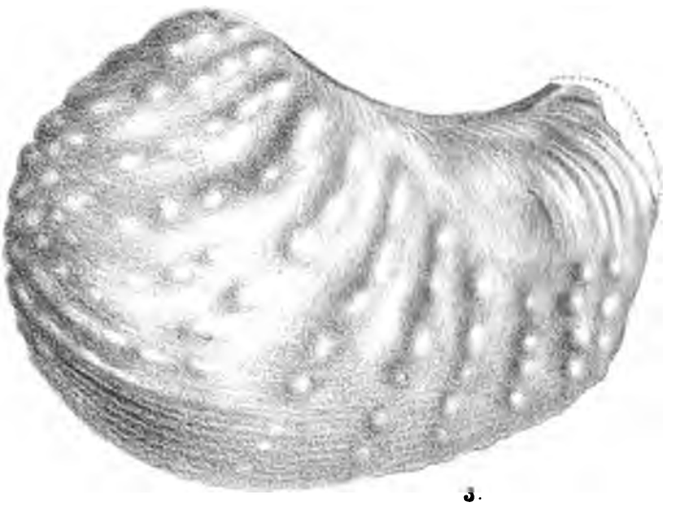
1.2.3.4. Choanites subrotundus.



1. *Ostrea recurvirostra.*
2. *O. transversa.*
3. *Turrilites undulatus*

1.

2.



3.

1. *Trigonia gibbosa. new var.*
2. *T. incurva.*
3. *T. radiata.*